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IS 13377 (1992): Forestry Tools - Shrub Cutting Knife [FAD 21: Farm Implements and Machinery]

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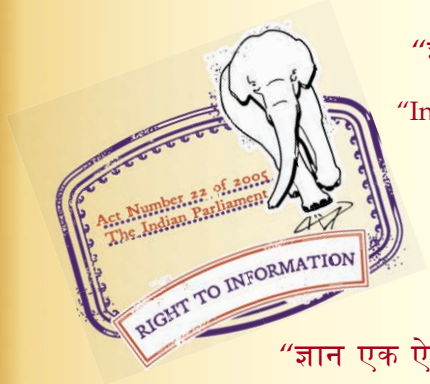

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Bhartṛhari—Nītiśatakam
"Knowledge is such a treasure which cannot be stolen"

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वानिकी औजार — झाड़ी काटने के यन्त्र — विशिष्टि

Indian Standard

FORESTRY TOOLS — SHRUB CUTTING KNIFE — SPECIFICATION

UDC 630·3

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BUREAU OF INDIAN STANDARDS
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110002

August 1992

Price Group 1

FOREWORD

This Indian Standard was adopted by the Bureau of Indian Standards, after the draft finalized by the Forestry and Plantation Crops Machinery Sectional Committee had been approved by the Food and Agriculture Division Council.

Cutting/clearing of shrubs/ bushes in the forest is a regular process. For this, shrub cutting kinves have been developed and are being used. This knife can also be used for cutting of bamboos. Considering the use of shrub cutting knife in the country, a need was felt to prepare the standards for helping in quality production of this tool.

In the preparation of this standard assistance has been derived from the Forest Operations Division, Forest Research Institute (ICFRE), Dehra Dun.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS 2 : 1960 'Rules for rounding off numerical values (*revised*)'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

Indian Standard

FORESTRY TOOLS — SHRUB CUTTING KNIFE — SPECIFICATION

1 SCOPE

This standard specifies the materials, dimensions and other requirements for shrub cutting knife used for cutting/clearing bushes and also for cutting bamboos.

2 REFERENCES

The list of Indian Standards which are necessary adjuncts to this standard is given in Annex A.

3 MATERIALS

Various components of shrub cutting knives shall be made from the materials given below:

Component	*Material*
Blade	High carbon steel (Grade 6 of Designation 80C6 of IS 2507 : 1975)
Handle	Hard wood [*Acacia arabica* (Babul), *Acacia Catechu* (Khair), *Adina cordifolia* (Haldu), *Shorea robusta* (Sal), *Terminalia tementosa* (Laurel), *Anogesisus latifolia* (Bakli), *Ongeinia dal-bergioides* (Sandan), *Schl·ichera trijuga* (Kusum).

3.1 The hardness of blade shall be 45 ± 3 HRC, when measured in accordance with IS 1586 : 1988.

4 SHAPE AND DIMENSIONS

The dimensions shall be as given in Fig. 1.

4.1 The tolerances for various dimensions shall be of coarse class specified in IS 2102 (Part 1) : 1980.

5 OTHER REQUIREMENTS

5.1 The mass of the shrub cutting knife (including the mass of the handle) shall not be more than 1 250 g.

6 WORKMANSHIP AND FINISH

6.1 The shrub cutting knife shall be free from defects such as cracks, rust, burrs, and other manufacturing defects.

6.2 All sharp corners shall be rounded off.

7 PERFORMANCE TEST

7.1 Shrub cutting knife shall not show any sign of bluntness or damage when hitted against hard wood for 15 strokes.

8 DESIGNATION

Shurb cutting knife shall be designated by its name and the number of this Indian Standard as:

Shrub Cutting Knife, IS 13377

9 MARKING

Each shrub cutting knife shall be marked as follows:

a) Manufacturer's name and recognized trade mark;

b) Model number; and

c) Batch, code or serial number.

9.1.1 *Standard Marking*

Shrub cutting knife may also be marked with the Standark Mark.

10 PACKING

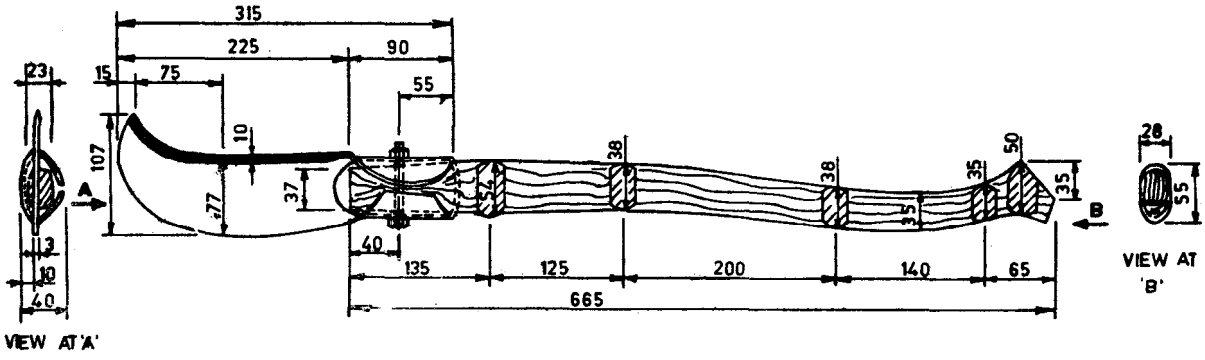
Each shrub cutting knife shall be suitably packed to avoid damage in handling and transit.

11 SAMPLING

In order to ascertain the conformity of the lot, the procedure for sampling inspection as given in IS 2500 (Part 1) : 1983 shall be followed. The inspection level and AQL for various characteristics shall be according to **11.1** and **11.2.**

11.1 For dimensions, workmanship and finish, a single sampling plan with inspection level IV and AQL of 4 percent given in Tables 1 and 2 of IS 2500 (Part 1) : 1983 shall be followed.

11.2 For hardness and other requirements a single sampling plan with inspection level II and AQL of 4 percent as given in Table 1 and 2 of IS 2500 (Part 1) : 1983 shall be followed.



All dimensions in millimetres.

FIG. 1 SHRUB CUTTING KNIFE

ANNEX A

(*Clause* 2)

LIST OF REFERRED INDIAN STANDARDS

IS No.	*Title*	*IS No.*	*Title*
1586 : 1988	Method for Rockwell hardness test for metallic material (Scales A-B-C-D-E-F-G-H-K) (*second revision*)	2500 (Part 1) : 1983	Sampling inspection tables: Part 1 Inspection by attributes and by count of defects (*first revision*)
2102 (Part 1) : 1980	General tolerances for dimensions and form and position: Part 1 General tolerances for linear and angular dimensions (*second revision*)	2507 : 1975	Specification for rolled steel strips for springs (*first revision*)

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